NKU NORTHERN KENTUCKY UNIVERSITY

TRANSFER AGREEMENT

with

Ivy Tech Community College of Indiana

Fall 2016

COLLEGE OF INFORMATICS

COMPUTER SCIENCE AGREEMENT

ARTICULATION AGREEMENT

Between
Northern Kentucky University
and
Ivy Tech Community College Statewide

For Transfer of Ivy Tech Community College's Associate of Science in Computer Science to
Northern Kentucky University's Bachelor of Science in Computer Science

Statement of Purpose
The purpose of this articulation is to provide a basis for a cooperative relationship between Northern Kentucky University and Ivy Tech Community College (ITCC) to benefit students who desire to complete a bachelor's degree. The intent is for ITCC students completing the Associate of Science (A.S.) in Computer Science degree to move seamlessly to the Bachelor of Science (B.S.) in Computer Science degree program.

Transfer Agreement
Ivy Tech Community College graduates from the Associate of Science degree program of study in Computer Science, from any Ivy Tech campus, may transfer and apply the credits from that completed degree to requirements for Northern Kentucky University Bachelor of Science in Computer Science.

Addendum: Ivy Tech Community College A.S. in Computer Science to B.S. in Computer Science Checklist

Additionally, under the terms of this agreement:

1. ITCC students are eligible for admission with junior standing to Northern Kentucky University provided they submit a completed application and have a minimum of 60 credits with a 2.0 or higher grade point average on a 4-point scale.

2. Students must earn a grade of C- or better in each course that counts as part of the Computer Science major or minor regardless of the institution at which the course is taken.

3. Beginning in Fall 2017, ITCC students completing the Associate of Science degree before transferring to NKU will be certified in general education. Students who transfer to NKU before completing their Associate of Science degree will be required to complete NKU's general education curriculum and ITCC courses will be evaluated on a course-by-course basis.

4. The parties to this agreement are committed to an annual review of its details to adjust them for any relevant curricular changes at either institution. In the event of such changes, Northern Kentucky University will permit an ITCC student covered under this agreement to designate a catalog year (for purposes of applicable requirements) up to two years before the matriculation date at Northern Kentucky University.

5. Written notice of intention to terminate, modify, or withdraw from this Articulation Agreement will be submitted by the academic head of either institution at least one academic semester prior to the proposed date of termination/withdrawal. Should a decision be made to modify or

dissolve this agreement, students who are already attending Northern Kentucky University at the time will be permitted to continue as long as their academic performance remains in good standing.

6. Under this agreement, ITCC students will be encouraged to complete their Associate of Science degree before transferring to Northern Kentucky University. Should an ITCC student transfer to Northern Kentucky University prior to completion of an Associate of Science degree, ITCC shall provide the opportunity for students to subsequently complete the Associate of Science degree in absentia using Northern Kentucky University course credit. In this interest, all course work completed at Northern Kentucky University will be accepted and applied to the Associate of Science degree requirements at ITCC consistent with the criteria used for native ITCC students. The same course may also apply toward baccalaureate degree requirements at Northern Kentucky University. The student will, however, need to complete NKU's general education requirements if the student transfers to NKU prior to completing the Associate of Science degree.

7. The transfer agreement will take effect upon the affixing of signatures of the Parties named below.

8. This agreement becomes effective when all signatures are affixed and remains in effect for two years from the date below. After two years, the agreement may be renewed with or without modification by mutual agreement of both Ivy Tech Community College and Northern Kentucky University.

Agreed to _____ (date)

Ivy Tech Community College   Northern Kentucky University

_____   _____
Steven Tincher   Dr. Maureen Doyle
Interim Provost and Senior Vice President   Interim Chair
                                               Computer Science

_____   _____
Dr. Russell Baker   Dr. Kevin Kirby
Vice President of Academic Affairs   Dean
and University Transfer Division   College of Informatics

                                               _____
                                               Ms. Sue Ott Rowlands
                                               Provost and Executive Vice President
                                               Academic Affairs

IVY TECH COMMUNITY COLLEGE A.S. IN COMPUTER SCIENCE TO NKU B.S. IN COMPUTER SCIENCE CHECKLIST

Completion of the following curriculum will satisfy the requirements for the Associate of Science in Computer Science degree at Ivy Tech Community College and leads to the Bachelor of Science in Computer Science at Northern Kentucky University.

Ivy Tech Community College of Indiana

Category I: Transfer General Education Core (TGEC) Competencies				
ITCC Course	**Course or Category**	**Credits**	**NKU Course**	✓
ENGL 111	English Composition	3	ENG 101	
COMM 101	Fundamentals of Public Speaking	3	CMST 101	
MATH 211	Calculus I	4	MAT 100G	
MATH 212	Calculus II	4	MAT 200T	
BIO 105 or PHYS 220	Biology I Molecular and Cellular Processes or Mechanics	5	BIO 150/150L PLAB 200G	
BIO 107 or PHYS 221	Biology II Diversity of Life or Heat, Electricity and Optics	5	BIO 151/151L PLAB 200G	
TBS XXX	Social and Behavioral Ways of Knowing	3-4	TBD XXX	
TBS XXX	Humanistic and Artistic Ways of Knowing	3-4	TBD XXX	
	Subtotal General Education Core	**30-32**		

TBS=to be selected by Ivy Tech student
TBD=to be determined by NKU based on course selected at Ivy Tech

Category II: Degree Requirements for AS in Computer Science and NKU Recommendations				
ITCC Course	**Course or Category**	**Credits**	**NKU Course**	✓
IVYT 111 or 115	Student Success in University Transfer	1	UNV 100T	
CSCI 101 and CSCI 102 and CSCI 202	Computer Science I and Computer Science II and Computer Science III	9	INF 120 and CSC 260 and INF 100T	
CSCI 210 and NETI 100 and SDEV 153	Database Systems and Network Communications and Web Site Development	9	INF 282 and INF 284 and INF 286	
ITSP 135	Hardware/Software Support	4		
CSCI 105	Discrete Logic for Computers	3		
SDEV 220*	Software Development using Python	3	INF 110	
CPIN 279	Computing and Informatics Exploration and Evaluation	1	INF 200T	
	Total Associate Degree Credit Hours	**60-62**		

*SDEV 220 is the preferred choice; however, students can also take SDEV 200, SDEV 210 or SDEV 240.

Northern Kentucky University

Students must complete the following courses for a BS in Computer Science.**

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
Category III: Major Requirements for the BS in Computer Science with a minor in Information Systems				
INF 120	Elementary Programming	3		X
INF 282	Introduction to Databases	3		X
INF 284 or CIT 247	Introduction to Networks and Data Communication or Networking Fundamentals	3		X
INF 286	Introduction to Web Development	3		X
CSC 260	Object-Oriented Programming I	3		X
CSC 360	Object-Oriented Programming II	3		
CSC 362	Computer Systems	3		
CSC 364	Data Structures and Algorithms	3		
CSC 402	Advanced programming Methods	3		
CSC 439	Software Testing and Maintenance	3		
CSC 440	Software Engineering	3		
CSC 460	Operating Systems	3		
CSC 485	Theory of Computation	3		
CSC 3XX-4XX	CSC Elective	3		
CSC 4XX	CSC Elective	3		
CSC 4XX	CSC Elective	3		
ENG 291	Advanced College Writing	3	ENGL 112	
MAT 128 and MAT 227 and MAT 228 OR MAT 129 and MAT 229	Calculus A, B and C or Calculus I and II	9	MATH 211 and MATH 212	Student must take MAT 228 (3 cr) or MAT 229 (5 cr) at NKU
STA 250	Probability and Statistics	3		
MAT 385	Discrete Mathematics	3		
BIS 275	Introduction to Business Analysis	3		
BIS 300	Management Information Systems	3		
BIS 310	Information Systems Analysis	3		
BIS 330	IT Project Management	3		
Select one: BIS 305, BIS 357, BIS 380, BIS 382, BIS 384, BIS 402, BIS 420, BIS 430, BIS 435, BIS 440	BIS Elective	3		
Subtotal NKU Courses Credit Hours		**60-62**		

Total Baccalaureate Degree Credit Hours	120-124		

**Note: In order to complete a B.S. degree in Computer Science at NKU, a student must complete a minor. The above pathway has an Information Systems Minor built into it. A mathematics minor would also be a good choice. Students should discuss options for minors with an NKU advisor after transferring to NKU.

Updated November 2016